AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims

 (currently amended) A pharmaceutical composition for systemic administration comprising a pharmaceutically suitable carrier or diluent and a compound having the structure:

$$R_{11}$$
 R_{10}
 R_{11}
 R_{10}
 R_{11}
 R

or a pharmaceutically acceptable salt or ester thereof; wherein

 R_1 is hydrogen, C_1 - C_{20} alkyl, C_2 - C_{20} alkenyl, C_2 - C_{20} alkynyl, C_1 - C_{20} heteroalkyl, C_2 - C_{20} heteroalkynyl, C_3 - C_{20} cycloalkyl, C_3 - C_{20} cycloalkynyl, C_3 - C_{20} heterocycloalkyl, C_3 - C_{20} heterocycloalkynyl, C_3 - C_{20} heterocycloalkynyl, C_3 - C_{14} aryl or C_3 - C_{14} heteroaryl;

R₂ is methyl;

R₃ is hydrogen or halogen;

R₄ is hydrogen or halogen;

R₅ is hydrogen or an oxygen protecting group;

 R_6 is hydrogen, hydroxyl, or protected hydroxyl with an oxygen protecting group; n is θ -2 1;

R₇ is hydrogen;

R₈ is hydrogen, halogen, hydroxyl, protected hydroxyl <u>with an oxygen protecting group</u>, or alkyloxy;

 R_9 is hydrogen, halogen, hydroxyl, protected hydroxyl with an oxygen protecting group, OR_{12} , SR_{12} , $NR_{12}R_{13}$, $-X_1(CH_2)_pX_2-R_{14}$, or is lower alkyl optionally substituted with hydroxyl, protected hydroxyl with an oxygen protecting group, halogen, amino, protected amino, or $-X_1(CH_2)_pX_2-R_{14}$;

wherein R_{12} and R_{13} are, independently for each occurrence, hydrogen, C_1 - C_{20} alkyl, C_2 - C_{20} alkenyl, C_2 - C_{20} alkynyl, C_1 - C_{20} heteroalkyl, C_2 - C_{20} heteroalkynyl, C_3 - C_{20} cycloalkyl, C_3 - C_{20} cycloalkynyl, C_3 - C_{20} cycloalkynyl, C_3 - C_{20} heterocycloalkyl, C_3 - C_{20} heterocycloalkenyl, C_3 - C_{20} heterocycloalkynyl, C_3 - C_{14} aryl or C_3 - C_{14} heteroaryl; or a nitrogen or oxygen protecting group, or R_{12} and R_{13} , taken together may form a saturated or unsaturated cyclic ring of 1 to 4 carbon atoms and 1 to 3 nitrogen or oxygen atoms, and each of R_{12} and R_{13} are optionally further substituted with one or more occurrences of hydroxyl, protected hydroxyl with an oxygen protecting group, alkyloxy, amino, protected amino, alkylamino, aminoalkyl, or halogen,

wherein X_1 and X_2 are each independently absent, or are oxygen, NH, or -N(alkyl), or wherein X_2 -R₁₄ together are N₃ or are a saturated or unsaturated heterocyclic moiety;

p is 2-10, and

 R_{14} is hydrogen, or a C_3 - C_{14} aryl, C_3 - C_{14} heteroaryl, C_1 - C_{20} alkyl(C_3 - C_{14})aryl, or C_1 - C_{20} alkyl(C_3 - C_{14})heteroaryl moiety, or is -(C=O)NHR₁₅, -(C=O)OR₁₅, or -(C=O)R₁₅, wherein each occurrence of R_{15} is independently hydrogen, C_1 - C_{20} alkyl, C_2 - C_{20} alkenyl, C_2 - C_{20} alkynyl, C_1 - C_{20} heteroalkyl, C_2 - C_{20} heteroalkynyl, C_3 - C_{20} cycloalkyl, C_3 - C_{20} cycloalkynyl, C_3 - C_{20} cycloalkynyl, C_3 - C_{20} heterocycloalkyl, C_3 - C_{20} alkyl, C_3 - C_{20} alkenyl or C_3 - C_{14} heteroaryl; or R_{14} is -SO₂(R_{16}), wherein R_{16} is a C_1 - C_{20} alkyl, C_2 - C_{20} alkenyl or C_2 - C_{20} alkynyl moiety, wherein one or more of R_{14} , R_{15} , or R_{16} are optionally substituted with one or more occurrences of hydroxyl, protected hydroxyl with an oxygen protecting group, alkyloxy, amino, protected amino, alkylamino, aminoalkyl, or halogen; or

R₈ and R₉ may, when taken together, form a saturated or unsaturated cyclic ring of 1 to 4 carbon atoms and 1 to 3 nitrogen or oxygen atoms and is optionally substituted with hydroxyl, protected hydroxyl, alkyloxy, amino, protected amino, alkylamino, aminoalkyl, or halogen;

 R_{10} is hydroxyl, protected hydroxyl with an oxygen protecting group, or amino; R_{11} is hydrogen;

X is O;

Y is CHR_{17} or CR_{17} ; and Z is CHR_{18} or CR_{18} ;

wherein each occurrence of R_{17} and R_{18} is hydrogen and wherein Y and Z may be connected by a single or double bond;

wherein oxygen protecting groups are selected from the group consisting of methyl ethers, methoxymethyl ether, methylthiomethyl ether, benzyloxymethyl ether, pemethoxybenzyloxymethyl ether, ethyl ethers, benzyl ethers, silyl ethers, trimethylsilyl ether, triethylsilylether, triisopropylsilyl ether, t-butyldimethylsilyl ether, tribenzyl silyl ether, t-butyldiphenyl silyl ether, esters, formate, acetate, benzoate, trifluoroacetate, dichloroacetate, carbonates, cyclic acetals and ketals and wherein nitrogen protecting groups are selected from the group consisting of carbamates, Troe 2,2,2-trichloroethoxycarbonyl, amides, cyclic imides, N-alkyl amines, N-aryl amines, imines,

wherein C₃-C₁₄ heteroaryl moieties are selected from cyclic aromatic moieties having from five to ten ring atoms of which one ring atom is selected from S, O and N; zero, one or two ring atoms are additional heteroatoms independently selected from S, O and N; and the remaining ring atoms are carbon.

2. (currently amended) The composition of claim 1, wherein:

 R_1 is hydrogen, straight or branched lower alkyl, straight or branched lower heteroalkyl, or C_3 - C_{14} aryl,

wherein the alkyl, heteroalkyl, and aryl groups may optionally be substituted with one or more occurrences of halogen, hydroxyl or protected hydroxyl with an oxygen protecting group;

R₃ is hydrogen;

and enamines; and

 R_9 is hydrogen, halogen, hydroxyl, protected hydroxyl with an oxygen protecting group, OR_{12} , SR_{12} , $NR_{12}R_{13}$,

 $-X_1(CH_2)_pX_2-R_{14}$, or is lower alkyl optionally substituted with hydroxyl, protected hydroxyl with an oxygen protecting group, halogen, amino, protected amino, or $-X_1(CH_2)_pX_2-R_{14}$;

wherein R_{12} and R_{13} are, independently for each occurrence, hydrogen, lower alkyl, C_3 - C_{14} aryl, C_3 - C_{14} heteroaryl, alkyl(C_3 - C_{14})aryl, or alkyl(C_3 - C_{14})heteroaryl, or a nitrogen or oxygen protecting group, or R_{12} and R_{13} , taken together may form a

saturated or unsaturated cyclic ring of 1 to 4 carbon atoms and 1 to 3 nitrogen or oxygen atoms, and each of R_{12} and R_{13} are optionally further substituted with one or more occurrences of hydroxyl, protected hydroxyl with an oxygen protecting group, alkyloxy, amino, protected amino, alkylamino, aminoalkyl, or halogen, wherein X_1 and X_2 are each independently absent, or are oxygen, NH, or -N(alkyl), or wherein X_2 - R_{14} together are N_3 or are a saturated or unsaturated heterocyclic moiety, p is 2-10, and

 R_{14} is hydrogen, or a C_3 - C_{14} aryl, C_3 - C_{14} heteroaryl, alkyl(C_3 - C_{14})aryl, or alkyl(C_3 - C_{14})heteroaryl moiety, or is -(C=O)NHR₁₅, -(C=O)OR₁₅, or -(C=O)R₁₅, wherein each occurrence of R_{15} is independently hydrogen, alkyl, heteroalkyl, C_3 - C_{14} aryl, C_3 - C_{14} heteroaryl, alkyl(C_3 - C_{14})aryl, or alkyl(C_3 - C_{14})heteroaryl, or R_{14} is -SO₂(R_{16}), wherein R_{16} is an alkyl moiety, wherein one or more of R_{14} , R_{15} , or R_{16} are optionally substituted with one or more occurrences of hydroxyl, protected hydroxyl with an oxygen protecting group, alkyloxy, amino, protected amino, alkylamino, aminoalkyl, or halogen; and R_{10} is hydroxyl.

- 3. (canceled)
- 4. (original) The composition of claim 2, where R_4 is halogen.
- 5. (currently amended) The composition of claim 2, where R₄ is fluorine hydrogen.
- 6. (original) The composition of claim 2, where Y and Z together represent -CH=CH-.
- 7. (original) The composition of claim 2, where Y and Z together represent trans -CH=CH-.
- 8. (previously presented) The composition of claim 2, wherein R_1 is methyl.
- 9. (canceled)
- 10. (original) The composition of claim 8, wherein R₄ is halogen.
- 11. (original) The composition of claim 8, wherein Y and Z together represent -CH=CH-.

12. (currently amended) The composition of claim 8, wherein n is 1, R₄ is halogen hydrogen and Y and Z together represent -CH=CH-.

- 13. (original) The composition of claim 11 or 12 wherein -CH=CH- is trans.
- 14. (currently amended) A pharmaceutical composition for systemic administration comprising a pharmaceutically suitable carrier or diluent and a compound having the structure:

or a pharmaceutically acceptable salt or ester thereof; wherein

 R_1 is hydrogen, straight or branched lower alkyl, straight or branched lower heteroalkyl, or C_3 - C_{14} aryl,

wherein the alkyl, heteroalkyl, and aryl groups may optionally be substituted with one or more occurrences of halogen, hydroxyl protected hydroxyl with an oxygen protecting group;

R₂ is methyl;

R₃ is hydrogen or halogen;

R₄ is hydrogen or halogen;

R₅ is hydrogen or an oxygen protecting group;

 R_6 is hydrogen, hydroxyl, or protected hydroxyl with an oxygen protecting group; n is 0-2 1;

R₇ is hydrogen;

R₈ is hydrogen, halogen, hydroxyl, protected hydroxyl <u>with an oxygen protecting group</u>, or alkyloxy;

 R_{12} and R_{13} are, independently for each occurrence, hydrogen, lower alkyl, C_3 - C_{14} aryl, C_3 - C_{14} heteroaryl, alkyl(C_3 - C_{14})aryl, or alkyl(C_3 - C_{14})heteroaryl, or a nitrogen or oxygen protecting group, or R_{12} and R_{13} , taken together may form a saturated or unsaturated

cyclic ring of 1 to 4 carbon atoms and 1 to 3 nitrogen or oxygen atoms, and each of R_{12} and R_{13} are optionally further substituted with one or more occurrences of hydroxyl, protected hydroxyl with an oxygen protecting group, alkyloxy, amino, protected amino, alkylamino, aminoalkyl, or halogen;

 R_{10} is hydroxyl, protected hydroxyl with an oxygen protecting group, or amino; R_{11} is hydrogen;

Y is CHR_{17} or CR_{17} ; and Z is CHR_{18} or CR_{18} ;

wherein each occurrence of R_{17} and R_{18} is hydrogen wherein Y and Z may be connected by a single or double bond, Θ

R₁₃ and R₈ may, when taken together, form a cyclic ring of 1 to 4 carbon atoms and 1 to 3 nitrogen or oxygen atoms and is optionally substituted with hydrogen, alkyloxy, amino, alkylamino, aminoalkyl, and halogen;

wherein oxygen protecting groups are selected from the group consisting of methyl ethers, methoxymethyl ether, methylthiomethyl ether, benzyloxymethyl ether, pemethoxybenzyloxymethyl ether, ethyl ethers, benzyl ethers, silyl ethers, trimethylsilyl ether, triethylsilylether, triisopropylsilyl ether, t-butyldimethylsilyl ether, tribenzyl silyl ether, t-butyldiphenyl silyl ether, esters, formate, acetate, benzoate, trifluoroacetate, dichloroacetate, carbonates, cyclic acetals and ketals and wherein nitrogen protecting groups are selected from the group consisting of carbamates, Troe 2,2,2-trichloroethoxycarbonyl, amides, cyclic imides, N-alkyl amines, N-aryl amines, imines, and enamines; and

wherein C₃-C₁₄ heteroaryl moieties are selected from cyclic aromatic moieties having from five to ten ring atoms of which one ring atom is selected from S, O and N; zero, one or two ring atoms are additional heteroatoms independently selected from S, O and N; and the remaining ring atoms are carbon.

- 15. (canceled)
- 16. (original) The composition of claim 14, wherein R₄ is halogen.
- 17. (original) The composition of claim 14, wherein Y and Z together represent -CH=CH-.
- 18. (previously presented) The composition of claim 14, wherein R_1 is methyl.

- 19. (currently amended) The composition of claim 14, wherein n is 1, R₁ is methyl, R₄ is halogen hydrogen, and Y and Z together represent -CH=CH-.
- 20. (original) The composition of claim 17 or 19, wherein -CH=CH- is trans.
- 21-22. (canceled)
- 23. (previously presented) The composition of claim 14, wherein the compound has the structure:

or a pharmaceutically acceptable salt or ester thereof.

24-26. (canceled)

27. (previously presented) The composition of claim 14, wherein the compound has the structure:

or a pharmaceutically acceptable salt or ester thereof.

28. (previously presented) The composition of claim 14, wherein the compound has the structure:

or a pharmaceutically acceptable salt or ester thereof.

29. (previously presented) The composition of claim 14, wherein the compound has the structure:

or a pharmaceutically acceptable salt or ester thereof.

30. (previously presented) The composition of claim 14, wherein the compound has the structure:

or a pharmaceutically acceptable salt or ester thereof.

31. (previously presented) The composition of claim 14, wherein the compound has the structure:

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or a pharmaceutically acceptable salt or ester thereof.

- 32. (canceled)
- 33. (previously presented) The composition of claim 14, wherein the compound has the structure:

or a pharmaceutically acceptable salt or ester thereof.

34-45. (canceled)

- 46. (withdrawn, currently amended) The composition of claim 2, where R₁ is hydrogen methyl.
- 47. (withdrawn, currently amended) The composition of claim [[1]] $\underline{2}$, where [[R₃]] $\underline{R_4}$ is halogen.
- 48. (withdrawn) The composition of claim 2, where R₄ is hydrogen.
- 49. (withdrawn) The composition of claim 2, where R₅ is hydrogen.
- 50. (withdrawn) The composition of claim 2, where R₆ is hydroxyl.
- 51. (canceled)

- 52. (withdrawn, currently amended) The composition of claim 1, where R₈ is halogen hydrogen.
- 53. (withdrawn, currently amended) The composition of claim 2, where R_9 is hydroxyl, protected hydroxyl with an oxygen protecting group, $-OR_{12}$, $-NR_{12}R_{13}$, or $-O(CH_2)_pX_2-R_{14}$, wherein R_{12} , R_{13} , R_{14} and X_2 are as defined in claim 2.
- 54. (withdrawn, currently amended) The composition of claim 53, where R₉ is -OR₁₂, wherein R₁₂ is methyl, ethyl, propyl, isopropyl, butyl, [[Bn]] <u>benzyl</u>, <u>PMB (MPM) paramethoxybenzyl</u>, 3,4-ClBn 3,4-dichlorobenzyl, or

55.-61. (canceled)

62. (previously presented) The composition of claim 1 wherein the compound has the structure:

63. (previously presented) The composition of claim 1 wherein the compound has the structure:

or a pharmaceutically acceptable salt or ester thereof.

- 64. (canceled)
- 65. (previously presented) The composition of claim 1 wherein the compound has the structure:

or a pharmaceutically acceptable salt or ester thereof.

66. (previously presented) The composition of claim 1 wherein the compound has the structure:

67. (previously presented) A pharmaceutical composition for systemic administration comprising a pharmaceutically suitable carrier or diluent and a compound having the structure:

or a pharmaceutically acceptable salt, ester, or salt of ester thereof.

68. (currently amended) The composition of claim 67, having the structure wherein the compound is:

69. (previously presented) A pharmaceutical composition for systemic administration comprising a pharmaceutically suitable carrier or diluent and a compound having the structure:

or a pharmaceutically acceptable salt, ester, or salt of ester thereof.

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70. (currently amended) The composition of claim 69, having the structure wherein the compound is:

- 71. (previously presented) The composition of claim 2, wherein R_4 , R_5 and R_8 are hydrogen, R_6 and R_{10} are hydroxyl, and Y and Z together represent trans -CH=CH-.
- 72. (previously presented) The composition of claim 71, wherein R₁ is methyl.
- 73. (previously presented) The composition of claim 14, wherein R₄, R₅ and R₈ are hydrogen, R₆ and R₁₀ are hydroxyl, and Y and Z together represent trans -CH=CH-.
- 74. (previously presented) The composition of claim 73, wherein R₁ is methyl.
- 75. (currently amended) A pharmaceutical composition comprising a pharmaceutically suitable carrier or diluent and a compound having the structure:

or a pharmaceutically acceptable salt or ester or salt of ester thereof; wherein R_1 is hydrogen, C_1 - C_{20} alkyl, C_2 - C_{20} alkenyl, C_2 - C_{20} alkynyl, C_1 - C_{20} heteroalkyl, C_2 - C_{20} heteroalkynyl, C_3 - C_{20} cycloalkyl, C_3 - C_{20} cycloalkynyl, C_3 - C_{20} heterocycloalkyl, C_3 - C_{20} heterocycloalkyl, C_3 - C_{20} heterocycloalkynyl, C_3 - C_{14} aryl or C_3 - C_{14} heteroaryl;

R₂ is methyl;

R₃ is hydrogen or halogen;

R₄ is hydrogen or halogen;

R₅ is hydrogen or an oxygen protecting group;

 R_6 is hydrogen, hydroxyl, or protected hydroxyl with an oxygen protecting group; n is 0-2 1;

R₇ is hydrogen;

R₈ is hydrogen, halogen, hydroxyl, protected hydroxyl <u>with an oxygen protecting group</u>, or alkyloxy;

 R_9 is hydrogen, halogen, hydroxyl, protected hydroxyl with an oxygen protecting group, OR_{12} , SR_{12} , $NR_{12}R_{13}$,

 $-X_1(CH_2)_pX_2-R_{14}$, or is lower alkyl optionally substituted with hydroxyl, protected hydroxyl with an oxygen protecting group, halogen, amino, protected amino, or $-X_1(CH_2)_pX_2-R_{14}$;

wherein R_{12} and R_{13} are, independently for each occurrence, hydrogen, C_1 - C_{20} alkyl, C_2 - C_{20} alkenyl, C_2 - C_{20} alkynyl, C_1 - C_{20} heteroalkyl, C_2 - C_{20} heteroalkenyl, C_2 - C_{20} heteroalkynyl, C_3 - C_{20} cycloalkyl, C_3 - C_{20} cycloalkenyl, C_3 - C_{20} cycloalkynyl, C_3 - C_{20} heterocycloalkyl, C_3 - C_{20} heterocycloalkyl, C_3 - C_{20} heterocycloalkynyl, C_3 - C_{14} aryl or C_3 - C_{14} heteroaryl; or a nitrogen or oxygen protecting group, or R_{12} and R_{13} , taken together may form a saturated or unsaturated cyclic ring of 1 to 4 carbon atoms and 1 to 3 nitrogen or oxygen atoms, and each of R_{12} and R_{13} are optionally further substituted with one or more occurrences of hydroxyl, protected hydroxyl with an oxygen protecting group, alkyloxy, amino, protected amino, alkylamino, aminoalkyl, or halogen,

wherein X_1 and X_2 are each independently absent, or are oxygen, NH, or -N(alkyl), or wherein X_2 -R₁₄ together are N₃ or are a saturated or unsaturated heterocyclic moiety;

p is 2-10, and

 R_{14} is hydrogen or a C_3 - C_{14} aryl, C_3 - C_{14} heteroaryl, C_1 - C_{20} alkyl(C_3 - C_{14})aryl, or C_1 - C_{20} alkyl(C_3 - C_{14})heteroaryl moiety, or is -(C=O)NHR₁₅, -(C=O)OR₁₅, or -(C=O)R₁₅, wherein each occurrence of R_{15} is independently hydrogen, C_1 - C_{20} alkyl, C_2 - C_{20} alkenyl, C_2 - C_{20} alkynyl, C_1 - C_{20} heteroalkyl, C_2 - C_{20} heteroalkenyl, C_2 - C_{20}

heteroalkynyl, C_3 - C_{20} cycloalkyl, C_3 - C_{20} cycloalkenyl, C_3 - C_{20} cycloalkynyl, C_3 - C_{20} heterocycloalkyl, C_3 - C_{20} heterocycloalkynyl, C_3 - C_{14} aryl or C_3 - C_{14} heteroaryl; or R_{14} is - $SO_2(R_{16})$, wherein R_{16} is a C_1 - C_{20} alkyl, C_2 - C_{20} alkenyl or C_2 - C_{20} alkynyl moiety, wherein one or more of R_{14} , R_{15} , or R_{16} are optionally substituted with one or more occurrences of hydroxyl, protected hydroxyl with an oxygen protecting group, alkyloxy, amino, protected amino, alkylamino, aminoalkyl, or halogen; or

R₈ and R₉ may, when taken together, form a saturated or unsaturated cyclic ring of 1 to 4 carbon atoms and 1 to 3 nitrogen or oxygen atoms and is optionally substituted with hydroxyl, protected hydroxyl, alkyloxy, amino, protected amino, alkylamino, aminoalkyl, or halogen;

 R_{10} is hydroxyl, protected hydroxyl with an oxygen protecting group, or amino; R_{11} is hydrogen;

X is O:

Y is CHR_{17} or CR_{17} ; and Z is CHR_{18} or CR_{18} ;

wherein each occurrence of R_{17} and R_{18} is hydrogen and wherein Y and Z may be connected by a single or double bond;

wherein oxygen protecting groups are selected from the group consisting of methyl ethers, methoxymethyl ether, methylthiomethyl ether, benzyloxymethyl ether, p-methoxybenzyloxymethyl ether, ethyl ethers, benzyl ethers, silyl ethers, trimethylsilyl ether, triethylsilylether, triisopropylsilyl ether, t-butyldimethylsilyl ether, tribenzyl silyl ether, t-butyldiphenyl silyl ether, esters, formate, acetate, benzoate, trifluoroacetate, dichloroacetate, carbonates, cyclic acetals and ketals and wherein nitrogen protecting groups are selected from the group consisting of carbamates, Troe 2,2,2-

<u>trichloroethoxycarbonyl</u>, amides, cyclic imides, N-alkyl amines, N-aryl amines, imines, and enamines; and

wherein C₃-C₁₄ heteroaryl moieties are selected from cyclic aromatic moieties having from five to ten ring atoms of which one ring atom is selected from S, O and N; zero, one or two ring atoms are additional heteroatoms independently selected from S, O and N; and the remaining ring atoms are carbon.

76. (currently amended) The composition of claim 75, wherein:

 R_1 is hydrogen, straight or branched lower alkyl, straight or branched lower heteroalkyl, or C_3 - C_{14} aryl,

wherein the alkyl, heteroalkyl, and aryl groups may optionally be substituted with one or more occurrences of halogen, hydroxyl or protected hydroxyl with an oxygen protecting group;

R₃ is hydrogen;

R₈ is hydrogen;

 R_9 is hydrogen, halogen, hydroxyl, protected hydroxyl with an oxygen protecting group, OR_{12} , SR_{12} , $NR_{12}R_{13}$,

 $-X_1(CH_2)_pX_2-R_{14}$, or is lower alkyl optionally substituted with hydroxyl, protected hydroxyl with an oxygen protecting group, halogen, amino, protected amino, or $-X_1(CH_2)_pX_2-R_{14}$;

wherein R_{12} and R_{13} are, independently for each occurrence, hydrogen, lower alkyl, C_3 - C_{14} aryl, C_3 - C_{14} heteroaryl, alkyl(C_3 - C_{14})aryl, or alkyl(C_3 - C_{14})heteroaryl, or a nitrogen or oxygen protecting group, or R_{12} and R_{13} , taken together may form a saturated or unsaturated cyclic ring of 1 to 4 carbon atoms and 1 to 3 nitrogen or oxygen atoms, and each of R_{12} and R_{13} are optionally further substituted with one or more occurrences of hydroxyl, protected hydroxyl with an oxygen protecting group, alkyloxy, amino, protected amino, alkylamino, aminoalkyl, or halogen, wherein X_1 and X_2 are each independently absent, or are oxygen, NH, or -N(alkyl), or wherein X_2 - R_{14} together are N_3 or are a saturated or unsaturated heterocyclic moiety, p is 2-10, and

 R_{14} is hydrogen, or a C_3 - C_{14} aryl, C_3 - C_{14} heteroaryl, alkyl(C_3 - C_{14})aryl, or alkyl(C_3 - C_{14})heteroaryl moiety, or is -(C=O)NHR₁₅, -(C=O)OR₁₅, or -(C=O)R₁₅, wherein each occurrence of R_{15} is independently hydrogen, alkyl, heteroalkyl, C_3 - C_{14} aryl, C_3 - C_{14} heteroaryl, alkyl(C_3 - C_{14})aryl, or alkyl(C_3 - C_{14})heteroaryl, or R_{14} is -SO₂(R_{16}), wherein R_{16} is an alkyl moiety, wherein one or more of R_{14} , R_{15} , or R_{16} are optionally substituted with one or more occurrences of hydroxyl, protected hydroxyl with an oxygen protecting group, alkyloxy, amino, protected amino, alkylamino, aminoalkyl, or halogen; and R_{10} is hydroxyl.

77. (canceled)

- 78. (previously presented) The composition of claim 76, where R₄ is halogen.
- 79. (currently amended) The composition of claim 76, where R₄ is fluorine hydrogen.
- 80. (previously presented) The composition of claim 76, where Y and Z together represent -CH=CH-.
- 81. (previously presented) The composition of claim 76, where Y and Z together represent trans -CH=CH-.
- 82. (previously presented) The composition of claim 76, wherein R₁ is methyl.
- 83. (canceled)
- 84. (previously presented) The composition of claim 82, wherein R₄ is halogen.
- 85. (previously presented) The composition of claim 82, wherein Y and Z together represent -CH=CH-.
- 86. (currently amended) The composition of claim 82, wherein n is 1, R₄ is halogen hydrogen and Y and Z together represent -CH=CH-.
- 87. (previously presented) The composition of claim 85 or 86 wherein -CH=CH- is trans.
- 88. (currently amended) A pharmaceutical composition comprising a pharmaceutically suitable carrier or diluent and a compound having the structure:

$$R_{12}$$
 R_{13}
 R_{13}
 R_{14}
 R_{15}
 R

or a pharmaceutically acceptable salt or ester or salt of ester thereof; wherein

 R_1 is hydrogen, straight or branched lower alkyl, straight or branched lower heteroalkyl, or C_3 - C_{14} aryl,

wherein the alkyl, heteroalkyl, and aryl groups may optionally be substituted with one or more occurrences of halogen, hydroxyl or protected hydroxyl with an oxygen protecting group;

R₂ is methyl;

R₃ is hydrogen or halogen;

R₄ is hydrogen or halogen;

R₅ is hydrogen or an oxygen protecting group;

 R_6 is hydrogen, hydroxyl, or protected hydroxyl with an oxygen protecting group; n is 0-21;

R₇ is hydrogen;

R₈ is hydrogen, halogen, hydroxyl, protected hydroxyl <u>with an oxygen protecting group</u>, or alkyloxy;

 R_{12} and R_{13} are, independently for each occurrence, hydrogen, lower alkyl, C_3 - C_{14} aryl, C_3 - C_{14} heteroaryl, alkyl(C_3 - C_{14})aryl, or alkyl(C_3 - C_{14})heteroaryl, or a nitrogen or oxygen protecting group, or R_{12} and R_{13} , taken together may form a saturated or unsaturated cyclic ring of 1 to 4 carbon atoms and 1 to 3 nitrogen or oxygen atoms, and each of R_{12} and R_{13} are optionally further substituted with one or more occurrences of hydroxyl, protected hydroxyl with an oxygen protecting group, alkyloxy, amino, protected amino, alkylamino, aminoalkyl, or halogen;

 R_{10} is hydroxyl, protected hydroxyl with an oxygen protecting group, or amino; R_{11} is hydrogen;

Y is CHR_{17} or CR_{17} ; and Z is CHR_{18} or CR_{18} ;

wherein each occurrence of R_{17} and R_{18} is hydrogen, wherein Y and Z may be connected by a single or double bond, Θ

R₁₃ and R₈ may, when taken together, form a cyclic ring of 1 to 4 carbon atoms and 1 to 3 nitrogen or oxygen atoms and is optionally substituted with hydrogen, alkyloxy, amino, alkylamino, aminoalkyl, and halogen;

wherein oxygen protecting groups are selected from the group consisting of methyl ethers, methoxymethyl ether, methylthiomethyl ether, benzyloxymethyl ether, p-methoxybenzyloxymethyl ether, ethyl ethers, benzyl ethers, silyl ethers, trimethylsilyl

ether, triethylsilylether, triisopropylsilyl ether, t-butyldimethylsilyl ether, tribenzyl silyl ether, t-butyldiphenyl silyl ether, esters, formate, acetate, benzoate, trifluoroacetate, dichloroacetate, carbonates, cyclic acetals and ketals and wherein nitrogen protecting groups are selected from the group consisting of carbamates, Troe 2,2,2-trichloroethoxycarbonyl, amides, cyclic imides, N-alkyl amines, N-aryl amines, and enamines; and

wherein C₃-C₁₄ heteroaryl moieties are selected from cyclic aromatic moieties having from five to ten ring atoms of which one ring atom is selected from S, O and N; zero, one or two ring atoms are additional heteroatoms independently selected from S, O and N; and the remaining ring atoms are carbon.

- 89. (canceled)
- 90. (previously presented) The composition of claim 88, wherein R₄ is halogen.
- 91. (previously presented) The composition of claim 88, wherein Y and Z together represent -CH=CH-.
- 92. (previously presented) The composition of claim 88, wherein R₁ is methyl.
- 93. (currently amended) The composition of claim 88, wherein n is 1, R₁ is methyl, R₄ is halogen hydrogen, and Y and Z together represent -CH=CH-.
- 94. (previously presented) The composition of claim 91 or 93, wherein -CH=CH- is trans.
- 95. (previously presented) The composition of claim 88, wherein the compound has the structure:

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96. (canceled)

97. (previously presented) The composition of claim 88, wherein the compound has the structure:

or a pharmaceutically acceptable salt or ester thereof.

98. (previously presented) The composition of claim 88, wherein the compound has the structure:

or a pharmaceutically acceptable salt or ester thereof.

99. (previously presented) The composition of claim 88, wherein the compound has the structure:

100. (previously presented) The composition of claim 88, wherein the compound has the structure:

or a pharmaceutically acceptable salt or ester thereof.

101. (previously presented) The composition of claim 88, wherein the compound has the structure:

or a pharmaceutically acceptable salt or ester thereof.

102. (previously presented) The composition of claim 88, wherein the compound has the structure:

- 103. (currently amended) The composition of claim 76, where R₁ is hydrogen methyl.
- 104. (currently amended) The composition of claim [[75]] $\underline{76}$, where [[R₃]] \underline{R}_4 is halogen.

- 105. (previously presented) The composition of claim 76, where R₄ is hydrogen.
- 106. (previously presented) The composition of claim 76, where R₅ is hydrogen.
- 107. (previously presented) The composition of claim 76, where R₆ is hydroxyl.
- 108. (currently amended) The composition of claim 75, where R₈ is halogen hydrogen.
- 109. (currently amended) The composition of claim 76, where R_9 is hydroxyl, protected hydroxyl with an oxygen protecting group, $-OR_{12}$, $-NR_{12}R_{13}$, or $-O(CH_2)_pX_2-R_{14}$, wherein R_{12} , R_{13} , R_{14} and X_2 are as defined in claim 76.
- 110. (currently amended) The composition of claim 109, where R₉ is -OR₁₂, wherein R₁₂ is methyl, ethyl, propyl, isopropyl, butyl, [[Bn]] benzyl, PMB (MPM) para-methoxybenzyl, 3,4-ClBn 3,4-dichlorobenzyl, or R₉ is

111. (previously presented) The composition of claim 75 wherein the compound has the structure:

112. (previously presented) The composition of claim 75 wherein the compound has the structure:

or a pharmaceutically acceptable salt or ester thereof.

113. (previously presented) The composition of claim 75 wherein the compound has the structure:

or a pharmaceutically acceptable salt or ester thereof.

114. (previously presented) The composition of claim 75 wherein the compound has the structure:

115. (previously presented) A pharmaceutical composition comprising a pharmaceutically suitable carrier or diluent and a compound having the structure:

or a pharmaceutically acceptable salt, ester, or salt of ester thereof.

116. (currently amended) The composition of claim 115, having the structure wherein the compound is:

117. (previously presented) A pharmaceutical composition comprising a pharmaceutically suitable carrier or diluent and a compound having the structure:

or a pharmaceutically acceptable salt, ester, or salt of ester thereof.

118. (currently amended) The composition of claim 117, having the structure wherein the compound is:

- 119. (previously presented) The composition of claim 76, wherein R_4 , R_5 and R_8 are hydrogen, R_6 and R_{10} are hydroxyl, and Y and Z together represent trans -CH=CH-.
- 120. (previously presented) The composition of claim 119, wherein R_1 is methyl.
- 121. (previously presented) The composition of claim 88, wherein R₄, R₅ and R₈ are hydrogen, R₆ and R₁₀ are hydroxyl, and Y and Z together represent trans -CH=CH-.
- 122. (previously presented) The composition of claim 121, wherein R_1 is methyl.
- 123. (new) The composition of claim 8, wherein R₄ is hydrogen.
- 124. (new) The composition of claim 14, wherein R₄ is hydrogen.
- 125. (new) The composition of claim 82, wherein R₄ is hydrogen.
- 126. (new) The composition of claim 88, wherein R₄ is hydrogen.